

WHAT IS CLAIMED IS:

1. An information processing apparatus for communicating with an external device, which displays received image data, by the wireless, comprising:

means for displaying a image data;

means for determining whether the image data to be displayed on the displaying means is updated; and

means for transmitting the updated image data to the external device when the determining means determined that the image data is updated.

2. An information processing apparatus according to claim 1, wherein the determining means includes means for performing a determining process for determining whether the image data to be displayed on the displaying means is updated repeatedly during the communication with the external device.

3. An information processing apparatus according to claim 2, wherein the transmitting means includes means for performing the transmission of the updated image data to the external device whenever the determining means determined that the image data is updated.

4. An information processing apparatus according to claim 1, wherein the determining means includes

means for obtaining the image data to be displayed on the displaying means at regular intervals; and

means for determining whether the current image data obtained by the obtaining means is different from the previous image data that was transmitted last time.

5. An information processing apparatus according to claim 4, wherein the transmitting means includes means for performing the transmission of the updated image data to the external device when the determining means determined that the

current image data is different from the previous image data.

6. An information processing apparatus according to claim 1, further comprising means for coding the image data to be transmitted by the transmitting means so that the transmitting means transmits the image data coded by the coding means to the external device.

7. An information processing apparatus according to claim 6, further comprising means for encrypting the image data coded by the coding means so that the transmitting means transmits the image data encrypted by the encrypting means to the external device.

8. An information processing apparatus according to claim 1, further comprising means for detecting one or more external devices existing within the range of the wireless communication by the transmitting means; and

means for selecting at least one of the external devices detected by the detecting means so that the transmitting means transmits the image data to the selected external device.

9. A method for transmitting an image data displayed on displaying means of an information processing apparatus from the information processing apparatus to an external device, which displays received image data, by the wireless, comprising:

determining whether the image data to be displayed on the displaying means is updated; and

transmitting the updated image data from the information processing apparatus to the external device when it is determined that the image data is updated in the determining step.

10. A method for transmitting an image data according to claim 9, wherein the determining step includes the step of performing a determining process for determining whether the image data to be displayed on the displaying means is updated repeatedly

during the communication between the information processing apparatus and the external device.

11. A method for transmitting an image data according to claim 10, wherein the transmitting step includes the step of performing the transmission of the updated image data from the information processing apparatus to the external device whenever it is determined that the image data is updated in the determining step.

12. A method for transmitting an image data according to claim 9, wherein the determining step includes the steps of:

obtaining the image data to be displayed on the displaying means at regular intervals; and

determining whether the current image data obtained in the obtaining step is different from the previous image data that was transmitted last time.

13. A method for transmitting an image data according to claim 12, wherein the transmitting step includes the step of performing the transmission of the updated image data from the information processing apparatus to the external device when it is determined that the current image data is different from the previous image data in the determining step.

14. A method for transmitting a image data according to claim 9, further comprising the step of coding the image data to be transmitted in the transmitting step so that the coded image data is transmitted from the information processing apparatus to the external device in the transmitting step.

15. A method for transmitting a image data according to claim 14, further comprising the step of encrypting the coded image data in the coding step so that the encrypted image data is transmitted from the information processing apparatus to the external device in the transmitting step.

16. A method for transmitting a image data according to claim 9, further comprising the steps of:

detecting one or more external devices existing within the range of the wireless communication of the information processing apparatus; and

selecting at least one of the detected external devices in the detecting step so that the image data is transmitted from the information processing apparatus to the selected external device in the transmitting step.